HARDIN COUNTY

(Hardin County Water Service Area Map)

- Estimated 1999 population of 83,500--90% on public water
- Estimated 2020 population of 86,200--94% on public water
- 800 miles of water lines, with plans for 130 additional miles
- Estimated funding needs for public water 2000-2005--\$6,818,000
- Estimated funding needs for public water 2006-2020--\$11,750,000

Hardin County had an estimated population of 83,466 (31,520 households) in 1999 with a projected population of 86,175 (34,747 households) in 2020. Public water is provided to 28,400 customers, or about 90 percent of the county's residents. In areas of the county not served by public water, about 90 percent of the households rely on private domestic wells and 10 percent of the households rely on other sources. About 1,260 households will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/	Total
							Pumps	
	Miles	Number	Cost in \$1000	in \$1000				
HARDIN								
Hardin Co. District #1	52	525	3,700				425	4,125
Hardin Co. District #2	33	436	2,268				425	2,693
TOTAL	85	961	5,968				850	6,818

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/	Total
							Pumps	
	Miles	Number	Cost in \$1000	in \$1000				
HARDIN								,
Hardin Co. District #1	45	302	2,000					2,000
Hardin Co. District #2				7,400	300	800	1,250	9,750
TOTAL	45	302	2,000	7,400	300	800	1,250	11,750

PUBLIC WATER SYSTEMS

The residents of Hardin County are presently provided water by Hardin County Water District #1, Hardin County Water District #2, the City of West Point, the City of Elizabethtown, the City of Vine Grove, and 1 federal community system. The City of Elizabethtown and the City of West Point have no potential expansion projects in mind and serve 100% of their service areas.

WATER SERVICE AREAS HARDIN COUNTY Kentucky

Prepared By: Water Resource Development Commission

Department for Local Government 1024 Capital Center Drive, Suite 340 Frankfort, Kentucky 40601-8204 502-573-2382 -- 502-573-2939 fax http://dlgnt1.state.ky.us/wrdc/

Bob Arnold, Chairman Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By: Kent Anness & Kim Prough

Data Collection & GIS Input By: Kentucky Area Development Districts

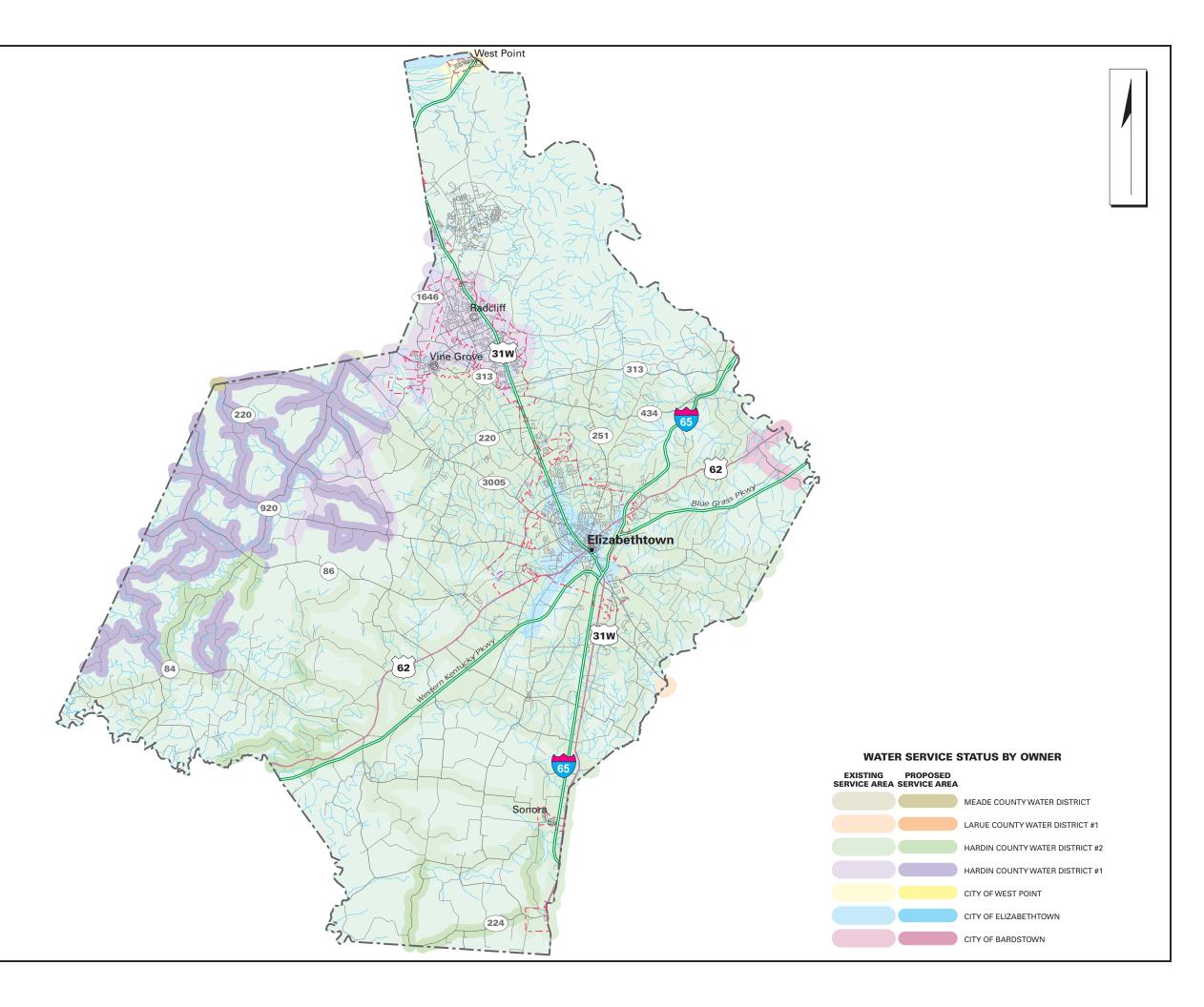








LIMITATION OF LIABILITY: The Water Resource Development Commission has no reason to believe that there are any inaccuracies or defects in information incorporated in this work and make no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor any such warranties to be implied, with



HARDIN COUNTY WATER DISTRICT #1

PWSID:	0470393
System Type:	COMMUNITY
Owner Type:	WATER DISTRICT
Surface Source:S	ANDERS SPRINGS
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	3.00
Percent Daily Average Production:	72.00
Total Tank Storage Capacity (gallons):	2,750,000.00
Total Service Connections:	8,882.00
Number of Employees:	
Treatment Operator Class:	
Distribution Operator Class:	3A
Customer Rate for 1,000 Gallons:	
O/M costs 1997:	
O/M costs per Service Connection:	160.45
Net Revenue 1997:	
Total Water Produced 1997 (gallons):	41,489,000.00
Water Sold 1997 (gallons):	906,889,000.00
Unaccounted-for Water 1997 (%):	11.86

Hardin County Water District #1 obtains water from Pirtle Spring, Gray Lane Well and they also purchase water from Ft. Knox Military Reservation. According to the Hardin County Water Supply Plan HCWD #1 has an adequate supply of water. The District currently services 8,882 customers in Hardin County. The Pirtle Spring Water Treatment Plant has a treatment capacity of 3.0 million gallons per day and averaged 1,973,850 gallons treated per day or roughly 66% of capacity. The District's storage system consists of four storage tanks located at various points within its service area. The total storage capacity of the district is 2,745,000 gallons.

Currently the district serves 8,882 customers. After the five projects proposed are completed, there will be there will be approximately 9,709 total customers in Hardin County Water District #1, and for all intents and purposes, the District will be roughly 100% serviced.

HARDIN COUNTY WATER DISTRICT #2

PWSID:	
System Type:	COMMUNITY
Owner Type:	WATER DISTRICT
Surface Source:	
Purchase Source:	
Well Source:	
Sells Water to:	

2.70
70.00
4,200,000.00
10,246.00
38.00
3D
3A
5.89
2,190,215.00
215.70
699,089.00
680,024,900.00
667,988,699.00
9.68

Hardin County Water District #2 obtains water from Nolin Lake and also purchases water from Hardin County Water District #1. According to the Hardin County Water Supply Plan HCWD #2 has an adequate supply of water. The District currently services 10,246 customers in Hardin County. The White Mills Water Treatment Plant has a treatment capacity of 2.7 million gallons per day and averaged 1.9 million gallons treated per day or roughly 70% of capacity. The District's storage system consists of eight storage tanks located at various points within its service area. The total storage capacity of the district is approximately 4,160,000 gallons.

Currently there are 10,246 customers. After the four projects proposed are completed, there will be approximately 10,687 total customers in Hardin County Water District #2, and the District will be roughly 100% serviced.

ELIZABETHTOWN WATER DEPARTMENT

PWSID:	COMMUNITY
Treatment Plant Capacity (MGD):	0.00
Percent Daily Average Production:	
Total Tank Storage Capacity (gallons):	0.00
Total Service Connections:	
Number of Employees:	
Treatment Operator Class:	
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:	
O/M costs 1997: O/M costs per Service Connection:	Not available
Net Revenue 1997:	
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	
Unaccounted-for Water 1997 (%):	
VINE GROVE	
PWSID:	0470440
System Type:	
Owner Type:	
Surface Source:	BRUSHY FORK
Purchase Source: HARDIN COUNTY WA	
	ATER DISTRICT #1
Well Source:	ATER DISTRICT #1
Well Source: Sells Water to:	
Well Source: Sells Water to: Treatment Plant Capacity:	0.667
Well Source: Sells Water to: Treatment Plant Capacity: Percent Dailty Average Production:	0.667
Well Source: Sells Water to: Treatment Plant Capacity: Percent Dailty Average Production: Total Tank Storage Capacity:	
Well Source: Sells Water to: Treatment Plant Capacity: Percent Dailty Average Production: Total Tank Storage Capacity: Total Service Connections:	
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Well Source: Sells Water to: Treatment Plant Capacity: Percent Dailty Average Production: Total Tank Storage Capacity: Total Service Connections: Number of Employees: Treatment Operator Class: Distribution Operator Class: Customer Rate for 1,000 Gallons: O/M costs 1997: O/M costs per Service Connection: Net Revenue 1997: Total Water Produced 1997: Water Sold 1997: Unaccounted-for Water 1997: WEST POINT WATER DEPARTMEN	
Well Source: Sells Water to: Treatment Plant Capacity: Percent Dailty Average Production: Total Tank Storage Capacity: Total Service Connections: Number of Employees: Treatment Operator Class: Distribution Operator Class: Customer Rate for 1,000 Gallons: O/M costs 1997: O/M costs per Service Connection: Net Revenue 1997: Total Water Produced 1997: Water Sold 1997: Unaccounted-for Water 1997:	

Surface Source: Purchase Source: Well Source: Sells Water to: Percent Daily Average Production: 22.00 Number of Employees: 3.00 **Treatment Operator Class:** Distribution Operator Class: 2BD O/M costs 1997: Not available

OTHER SYSTEMS

FORT KNOX / ENGR & HOUSING

Fort Knox / Engr & Housing is located in Hardin County. The system serves a population of 42,400 and has 3,290 service connections. The federal, community system has treatment capacity of 3,500,000 gallons per day. The water source is surface water Otter Creek.

PRIVATE DOMESTIC SYSTEMS

About 8,400 people in Hardin County rely on private domestic water supplies: 7,600 on wells and 800 on other sources.

In northern Hardin County nearly all drilled wells in the alluvium of the Ohio River valley are adequate for domestic use with many wells yielding several hundred gallons per minute (gpm). Compound horizontal wells set in the alluvium may yield 5,000 gpm, which is sufficient for a community or industrial use. In the Rough River lowlands in the southwestern corner of Hardin County most drilled wells are adequate for a domestic supply. Depths of drilled wells range from 60 to 300 feet. In much of central, eastern and northern Hardin County except in the lowlands of the mayor creeks and rivers, about three-forth of the wells drilled yield enough water for a domestic supply. In the rest of the county very few wells yield enough water for a domestic supply except in a few lowland areas bordering streams where yields are sufficient for a few wells to meet the supply needs for domestic use.

Springs with flows ranging from a few gallons per minute too 3128 gpm are found throughout the county. Many of the springs are of the depression type and yield more than 100 gpm when pumped.